

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

ORDER NO. 77-54

WASTEWATER RECLAMATION REQUIREMENTS FOR  
SONOMA VALLEY COUNTY SANITATION DISTRICT  
SONOMA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, finds that:

1. The Sonoma Valley County Sanitation District hereinafter referred to as the producer, submitted a report of waste discharge dated April 8, 1977.
2. The discharger proposes to establish a limited reclaimed wastewater distribution program. The uses of reclaimed wastewater include landscape irrigation of public parks, playgrounds and other public areas; roadway landscaping; dust control and soil compaction at construction sites; street sweeping dust control; and sanitary sewer cleaning in the Sonoma area.
3. All wastewater will be picked up by tank truck and applied to the use area by spraying, surface spreading or flushing to sanitary sewers. All use will take place from the truck and water will not be injected into a fixed irrigation system. There will be no use on residential landscaping.
4. Section 13523 of the California Water Code provides that a regional board, after consulting with and receiving the recommendations of the State Department of Public Health, and if it determines such action to be necessary to protect the public health, safety, or welfare, shall prescribe water reclamation requirements for water which is used or proposed to be used as reclaimed water. The use of reclaimed water for the purposes specified in Paragraph 2 could affect the public health, safety, or welfare, and requirements for those uses are therefore necessary in accordance with the Water Code.
5. The Board adopted a Water Quality Control Plan for the San Francisco Bay Basin in April 1975. The water quality objectives for reclaimed wastewater, as set forth in the Basin Plan specify those limits prescribed in Title 17, Section 8025 through Section 8050, California Administrative Code. These objectives have been superseded by Title 22, Section 60501 - 60357, California Administrative Code.
6. The limited reclaimed wastewater distribution program meets the criteria for a class 4 exemption pursuant to Section 15104 of the California Administrative Code (State EIR Guidelines).

7. The wastewater reclamation requirements are in conformance with the state-wide reclamation criteria established by the State Department of Health and are in conformance with the Policy and Action Plan for Water Reclamation adopted by the State Water Resources Control Board in January 1977.
8. This Regional Board has notified the producer, and interested agencies and persons of its intent to prescribe water reclamation requirements for the proposed uses.
9. This Board at a public meeting heard and considered all comments pertaining to this reuse.

IT IS HEREBY ORDERED, that the Sonoma Valley County Sanitation District, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. Reclaimed Wastewater Use Specifications

1. The treatment distribution or reuse of reclaimed water shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. The reclaimed water shall be at all times an adequately disinfected, oxidized water and shall meet the following quality limits at all times:
 

5-day BOD	40.0 mg/l, maximum
Dissolved Oxygen	1.0 mg/l, minimum
Dissolved Sulfide	0.1 mg/l, maximum
Coliform Organisms	Median MPN shall not exceed twenty-three (23) coliform organisms per 100 milliliters of sample at some point in the treatment process. The median value will be determined from the bacteriological results of the last seven (7) analyses.
3. All tank trucks and spray equipments which may at any time contain wastes shall be adequately and clearly identified with warning signs and producer and user shall make all necessary provisions, in addition, to inform the public that the liquid contained is sewage and is unfit for human consumption.
4. Conspicuous signs citing reclaimed wastewater use shall be posted on those reclaimed wastewater use areas where the public has unlimited access.

B. Reclaimed Wastewater Use Prohibitions

1. No wastewater shall be applied to the use areas during periods of rain-fall or when soils are saturated.
2. No reclaimed wastewater used for irrigation shall be allowed to escape the specified use areas, either by surface flow or airborne spray.

3. No reclaimed wastewater shall be applied for uses not approved in this Order as listed in Finding No. 2, or on locations other than those approved by the producer and no wastewater shall be disposed of into storm sewers.
4. No reclaimed wastewater used for irrigation shall be applied closer than 50 feet from picnic tables and other food and drinking water outlets.

C. Provisions

1. A licensing system and surveillance program shall be developed by the producer for the control of trucking operations. Each truck driver is issued a license must be instructed as to the requirements contained herein and the potential health hazards associated with the reuse of waster. Use of reclaimed wastewater shall not commence until the licensing and surveillance program has been established and approved by the Executive Officer of this Board.
2. Use of reclaimed wastewater shall not commence until the producer establishes to the satisfaction of the Executive Officer that he can consistently comply with the effluent limitations contained in this Order.
3. This Order includes items numbered 1 through 8 of the attached "Standard Provisions for the Use of Reclaimed Water" dated March 15, 1973.
4. No reclaimed wastewater to be applied for the uses specified in this Order shall be dechlorinated.
5. Additional use locations and users for the categories of use specified in Finding 2 may be authorized by the discharger subject to the limitations of this Order.
6. The Executive Officer may withdraw authorization for specific uses in the event that the terms and conditions of this Order are violated.
7. The producer is required to submit each month to this Board with a copy to the County Public Health Officer a report according to the schedule for sampling, measurement, and analysis given in Table I (attached). A list of additional users and use locations approved by the discharger shall be submitted with this report. The report shall note those use locations with unlimited public access that have been posted with signs indicating that reclaimed wastewater is being used. The report shall contain a summary of surveillance activities conducted by the producer to monitor the hauling and application of wastewater including what observations were made and corrective actions taken regarding violations.
8. The producer shall not provide users with wastewater unless the truck driver presents an authorization issued by Sonoma Valley County San Sanitation District. Said authorization shall include user's name, driver's name, authorized uses and locations, and a summary of use restrictions as specified in this Order. This authorization shall be presented on request to the staff of the Regional Board.

9. The producer and users shall take all measures necessary to minimize public contact with reclaimed wastewater.
10. The producer is required to submit a summary report by the end of each calendar year to include the following:
  - a. Locations at which and volume of reclaimed wastewater that has been applied for irrigation.
  - b. Construction projects which have benefited from the use of reclaimed wastewater.
  - c. Community acceptance, benefits and costs of the reclamation program.
  - d. Any adverse impacts of the program, including possible hazards to public health or degradation of ground or surface waters.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on May 17, 1977.

FRED H. DIERKER  
Executive Officer

Attachments:  
Standard Provisions for the Use of  
Reclaimed Wastewater, dated 3/15/73  
Table I & monitoring summary form

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

MARCH 15, 1973

STANDARD PROVISIONS  
FOR THE USE OF  
RECLAIMED WATER

1. This Board requests the user to take note of the comments and recommendations contained in all the correspondence the Board has received and considered concerning this matter, and the Executive Officer is directed to transmit copies of that correspondence to the user.
2. This Board considers "Waters of the State" as defined in Section 13050(e) of the California Water Code to include wastewaters over which the user has lost control.
3. The requirements prescribed herein do not authorize the commission of any act causing injury to the property of another, nor protect the user from his liabilities under Federal, State, or local laws, nor guarantee the user a capacity right in the receiving waters.
4. The discharge of any radiological, chemical, or biological warfare agent or high level radiological waste is prohibited.
5. The user shall file with the regional board technical reports on self-monitoring work performed according to detailed specifications as directed by the Executive Officer.
6. The user shall permit the Regional Board or its authorized representative:
  - a. Entry upon premises in which an effluent source is located or in which any required records are kept.
  - b. Access to copy any records required to be kept under terms and conditions of this order.
  - c. Inspection of any monitoring equipment or method required by this order.
  - d. Sampling of any discharge.
7. The user shall maintain in good working order and operate as efficiently as possible any facility or control system installed by the user to achieve compliance with the water reclamation requirements.
8. The user shall file with the regional board a report on waste discharge at least 180 days before making any material change or proposed change in the character, location or volume of reuse.

TABLE I  
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSES

SAMPLING STATIONS	E-001 thru E-00'n'	A-001 thru A-00'n'							
TYPE OF SAMPLES	G	O							
Reclaimed Wastewater Volume (gallons/day)	D 2/								
Coliforms (MPN)	D 2/								
Chlorine Residual (mg/l)	4H 1/ 2/								
Dissolved Sulfide	W								
BOD (mg/l)	W								
Dissolved Oxygen	D								
Random sampling of users Compliance wastewater requirements		W							

LEGEND

Type of Sample

G = grab sample  
O = observation

Station

A-001  
thru  
A-00'n' = application points by users

E-001  
thru  
E-00'n' = station(s) representative of treatment plant effluent  
being diverted for reclamation

Frequency of Sampling

4H = every 4 hours  
D = daily  
W = once each week  
2W = every 2 weeks

- 1/ Samples shall be taken during working hours provided all tank trucks are filled during this period of time
- 2/ Samples are required to be taken only on days any reclaimed wastewater is being diverted
- 3/ Data shall be submitted on the attached monitoring summary form and a copy sent to the Regional Board and County Health Department.

MONITORING SUMMARY FOR WASTEWATER RECLAMATION

DISCHARGE 388 Sonoma Valley County Sanitation District (Truck Haul) ORDER NO.

77-54

YEAR	FLOW	TOTAL COLIFORM		CHLORINE RESIDUAL	DO	BOD <sub>5</sub>	DISSOLVED SULFIDE	
MONTH								
DAY	TOTAL GALLONS RECLAIMED	MPN/100 ml	MPN/100 ml 7 DAY MEDIAN (23 MPN/100 ml)	mg/l DAILY MINIMUM	mg/l (1.0 mg/l min)	mg/l (40 mg/l max)	mg/l (0.1 mg/l max)	
1								
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